

## 1550nm RC80 Mini Polarization Insensitive Optical Isolator

1550nm RC80 Mini Polarization Insensitive Optical Isolator is a fiber passive component built with RC80 singlemode fiber, it allows light signal to be delivered in one forward direction and avoid the back reflection light, it's widely used in amplifier system, fiber optic sensor system to protect the light source and lower down the optical signal noise. High power type is available upon request.

### Application:

Fiber Optic Amplifier  
Fiber Optic Sensor  
Fiber Amplifier  
Fiber Laser

### Features:

Compact Package  
High Isolation  
Low Insertion Loss  
High Reliability



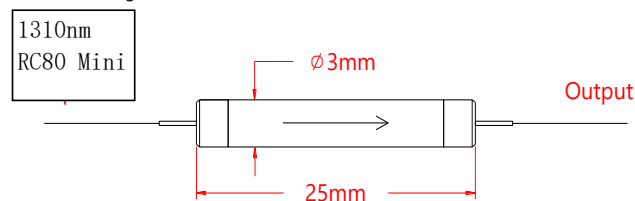
### Specification:

Parameter	Symbol	Value		Unit
Center Wavelength	$\lambda$	1550		nm
Bandwidth	BW	$\pm 15$		nm
Stage		Single Stage	Dual Stage	-
Typ. Insertion Loss	IL	0.6	0.8	dB
Max. Insertion Loss	IL	0.8	1.0	dB
Typ. Peak Isolation	Iso	40	50	dB
Min. Isolation	Iso	28	42	dB
Max. Polarization Dependent Loss	PDL	0.1		dB
Max. Polarization Mode Dispersion	PMD	0.25		ps
Min. Return Loss	RL	50		dB
Max. Optical Power (CW)	P	500		mW
Max. Tensile Load		5		N
Fiber Type		RC80 SMF Fiber		-
Operating Temperature	T	-5~70		°C
Storage Temperature	T	-40~85		°C
Package Dimension		$\Phi 3.0 \times L25$		mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

### Drawing:



### Ordering Information (Part Number):

WWWW	S	J	LL	CC
Wavelength	Stage	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	S - Single Stage	B - 165um Bare Fiber	05 - 0.5m	NE - None
1450 - 1450nm	D - Dual Stage		10 - 1.0m	
1480 - 1480nm			15 - 1.5m	
1550 - 1550nm			20 - 2.0m	
1590 - 1590nm			SS - Specify	
1625 - 1625nm				